

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Amend claims 12, 40 and 54**Add dependent claims 55 and 56**

2. (Previously presented) The device according to claim 54 further comprising a timer for monitoring the vibrating time period after activation of the vibration mechanism and prior to termination of the vibration by the user.

3. (Previously presented) The device according to claim 54 wherein the vibration transmission region of the vibrating member contains a material selected from the group consisting of soft, flexible synthetic rubber, visco-elastic gels and cross-linked polyurethane gels.

4. (Previously presented) The device according to claim 54 wherein the vibration dampening region comprises a volume of material providing a continuous lower surface for the vibrating member.

5. (Previously presented) The device according to claim 54 wherein the vibration dampening region comprises a plurality of discontinuous islands of material, each island associated with the location of a vibration mechanism in the vibrating member.

6. (Previously presented) The device according to claim 54 wherein the vibration damping region of the vibrating member contains an open-celled, flexible polymeric foam.

7. (Original) The device of claim 4 wherein the damping region of the vibrating member comprises an open-celled, flexible polymeric foam having a density in the range of about 1.3 to about 1.8 pounds per cubic foot.

8. (Previously presented) The device according to claim 54 wherein the vibrating member comprises a covering of a vinyl or rubber material.

12. (Currently Amended) A selective alarm device for use on a support medium for awakening or alerting [[the]] a user situated on a support medium[[,]] of the existence of a predetermined condition without disturbing any other person in the vicinity of the user, including another person situated on the support medium, said device comprising:

(i) a vibrating member for use in a location between a support medium and a user situated on the support medium, comprising a vibration mechanism and at least two regions of material, a vibration transmission region and a vibration dampening region, said vibrating member comprising two primary surfaces, a surface designated for facing the upper portion of the support medium and a surface designated for location nearest the user situated on the support medium,

said vibration mechanism when activated being capable of creating vibrations sufficient to alert or awaken the user;

said vibration transmission region being composed of a material that provides efficient transmission of vibration through the material and being substantially located between the vibration mechanism and the surface of the vibrating member designated for location nearest the user's body and said vibration dampening region substantially located between the vibration mechanism and the surface of the vibrating member nearest the support medium; and

said vibration dampening region being composed of material that tends to reduce or dampen the transmission of vibration through the material compared to the transmission region and being located between the vibration mechanism and the surface of the vibrating member designated for facing the upper portion of the support medium;

(ii) a sensor/controller comprising one or more elements which function as a sensor and controller, being capable of detecting the presence of a predetermined condition, and upon detection of the condition causing the activation of the vibration mechanism incorporated within the vibrating member; and

(iii) one or more power sources for operating the constituents of the device including the sensor/controller and the vibration mechanism;

said vibration mechanism when activated being capable of creating vibrations

sufficient to alert or awaken the user; said vibration transmission region having a density greater than that of the vibration dampening region; said vibrating member being sufficiently flexible so as not to be uncomfortable to the user when situated between the user and the support medium and being of a sufficient size and dimension to enable the vibration mechanism therein to transmit vibration in sufficient intensity to awaken or alert the user while said vibration dampening region dampens dampening transmission of vibration to the support medium ~~to prevent the disturbance of another person on the support medium.~~

13. (Original) The device according to claim 12 wherein the predetermined condition is selected from a preselected time, a sound originating from a location remote from the user, a signal from a safety or security device, an incoming telephone call, motion detected by a motion detection device, a bedwetting incident.

14. (Original) The device according to claim 13 wherein the safety or security device is selected from a smoke alarm, carbon monoxide detector, water or flood detector, burglar alarm, heart monitor, breathing monitor, infant monitor.

15 (Original) The device according to claim 13 wherein the existence of the predetermined condition is detected by a device separate from the selective alarm device which transmits a signal to the sensor/controller of the selective alarm device.

16. (Original) The device according to claim 13 wherein the signal to the sensor/controller is sent by wireless transmission.

17. (Original) The device according to claim 12 or 15 wherein the controller is attached to the vibrating mechanism by a hardwire connection.

18. (Original) The device according to claim 12 wherein the vibrating mechanism is selected from a motor that rotates an eccentric weight in an electromagnetic field and a piezoceramic material which vibrates when an alternating voltage is applied.

19. (Previously presented) The device according to claims 12 or 18 wherein the vibrating mechanism is capable of creating a range of vibration patterns differing in amplitude and/or frequency.

20. (Original) The device according to claim 12 wherein during the time period after activation by the controller the vibrating mechanism increases its amplitude and/or

frequency of vibration to create a vibration pattern that is more stimulating in arousing the user.

21. (Original) The device according to claim 12 comprising a switch for the user to turn off the operation of the vibrating mechanism after activation.

22. (Original) The device according to claim 13 further comprising a timer for monitoring the vibrating time period after activation of the vibration mechanism and prior to termination of the vibration by the user.

23. (Original) The device according to claim 12 wherein the controller and vibration device are capable of providing a varying degree of intensity of vibrations to the user and which can be preprogrammed to provide a gradual increasing of intensity of vibrations until the vibration mechanism is turned off.

24. (Original) The device according to claim 13 further comprising a supplemental alarm for transmitting notice to the user by one or more of audible, visible and olfactory media.

25. (Original) The device according to claim 24 wherein the supplemental alarm transmit notice to the user after the vibrating time period exceeds a predetermined time limit.

26. (Original) The device according to claim 12 further comprising a snooze alarm feature wherein after the user activates a snooze switch during the vibrating time period, the vibration terminates for a preselected time period after which the vibrating mechanism is activated.

27. (Original) The device according to claim 12 wherein the device further comprises a weight detecting element which shuts off the vibrating mechanism if the user is not detected as situated above the vibrating member.

28. (Original) The device according to claim 12 wherein the vibrating member is in the shape of a relatively flat pad ergonomically contoured for use under and adjacent the torso of a user.

29. (Original) The device according to claim 12 wherein the vibration transmission region of the vibrating member contains a material selected from the group consisting of soft, flexible synthetic rubber, visco-elastic gels and cross-linked polyurethane gels.

30. (Original) The device according to claim 12 wherein the vibration dampening region comprises a volume of material providing a continuous lower surface for the vibrating member.

31. (Original) The device according to claim 12 wherein the vibration dampening region comprises a plurality of discontinuous islands of material, each island associated with the location of a vibration mechanism in the vibrating member

32. (Original) The device according to claim 12 wherein the vibration damping region of the vibrating member contains an open-celled, flexible polymeric foam.

33. (Previously presented) The device of claim 12 wherein the damping region of the vibrating member comprises an open-celled, flexible polymeric foam having a density in the range of about 1.3 to about 1.8 pounds per cubic foot.

34. (Original) The device according to claim 12 wherein the vibrating member comprises a covering of a water-resistant or water-repellant material

35. (Original) The device according to claim 12 wherein the vibration mechanism and other component parts are removable from the vibrating member.

36. (Original) The device according to claim 12 wherein the device contains at least two vibrating members and wherein they are not all controlled through a single control.

37. (Original) The device according to claim 12 which is sized and configured to independently alert or alarm two or more users situated on the same bed or support medium, comprising at least one vibrating member for each user, each vibrating member comprising one or more vibration mechanisms and associated regions of materials of varying density, each vibration mechanism configured to be located in the vicinity of the individual users on the bed or other support medium, each vibrating mechanism capable of vibrating at different amplitudes and frequencies.

38. (Original) The device according to claim 12 which is programmed to be an alarm clock for awakening a sleeping user on a bed at a pre-selected time without disturbing another person sleeping on the same bed, said device including a time keeping element and an alarm capable of accurately tracking and displaying time and capable of transmitting a signal to the vibrating mechanism when a preselected time coincides with the actual time on the time-keeping element.

39. (Previously presented) The device according to claim 54 wherein the surface facing away from the vibration mechanism contains a feature to maintain the vibrating member in a relatively fixed position with respect to the bed or support medium.

40. (Currently amended) The device according to claim 54 wherein the device includes a backup alarm which is capable of being triggered when the user fails to turn off the device after a predetermined period of time after the vibration mechanism has been activated [~~-, said backup alarm being audible-~~].

54. (Currently amended) The device of claim 12 wherein the vibrating mechanism is capable of creating a range of vibration patterns differing in ~~amplitude~~ amplitude and/or frequency which are controlled by the user and which provide the user with a massage of a portion of the user's body.

55. (New) The device of claim 12 wherein the dampening region sufficiently reduces transmission of vibration to the surface of the vibrating member designated for facing the support medium to minimize transmission of vibration to any person other than the user on the support medium.

56. (New) The device of claim 12 wherein the device has a configuration suitable for being located under the lower torso of a user situated on a support medium for transmission of vibration to the lower torso of the user.